

FIG. 1

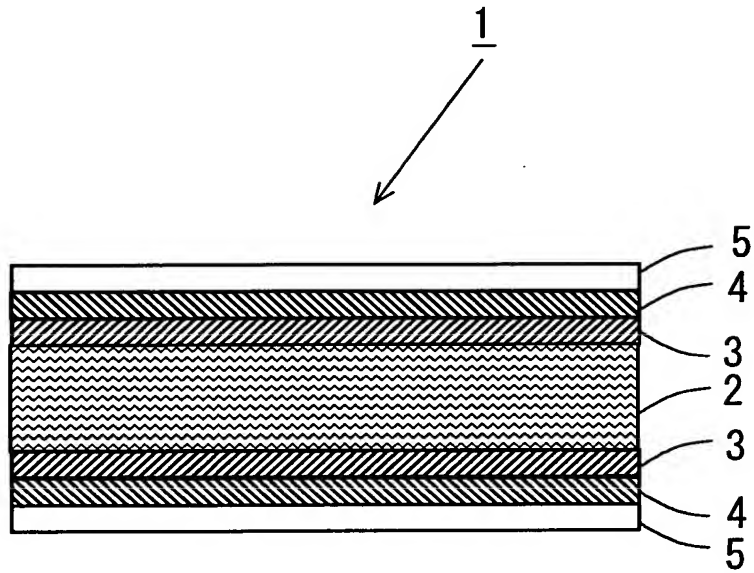


FIG. 2

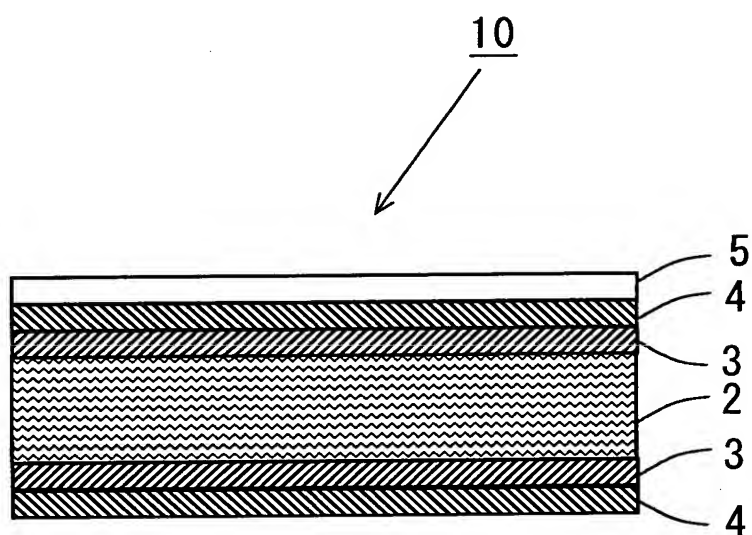


FIG. 3

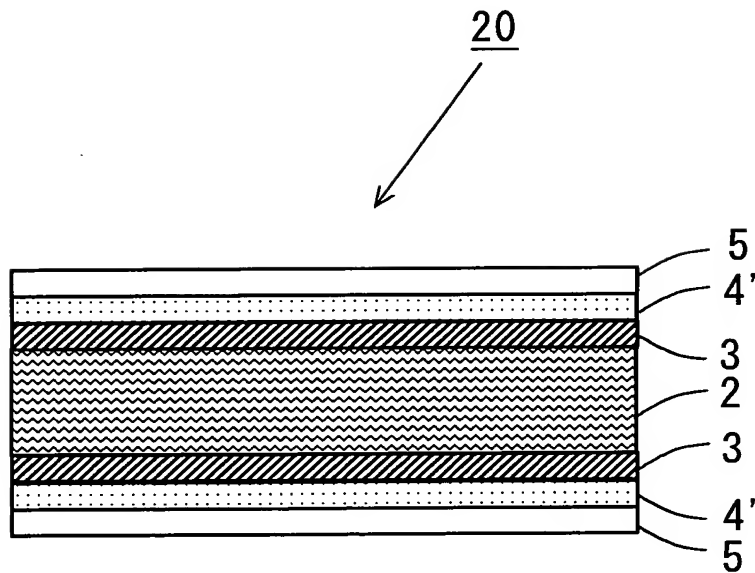


FIG. 4

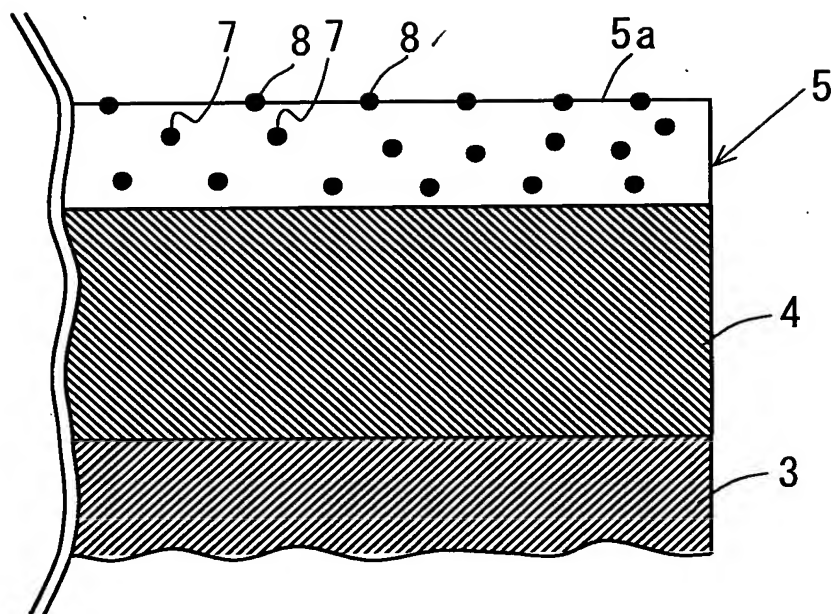


FIG. 5

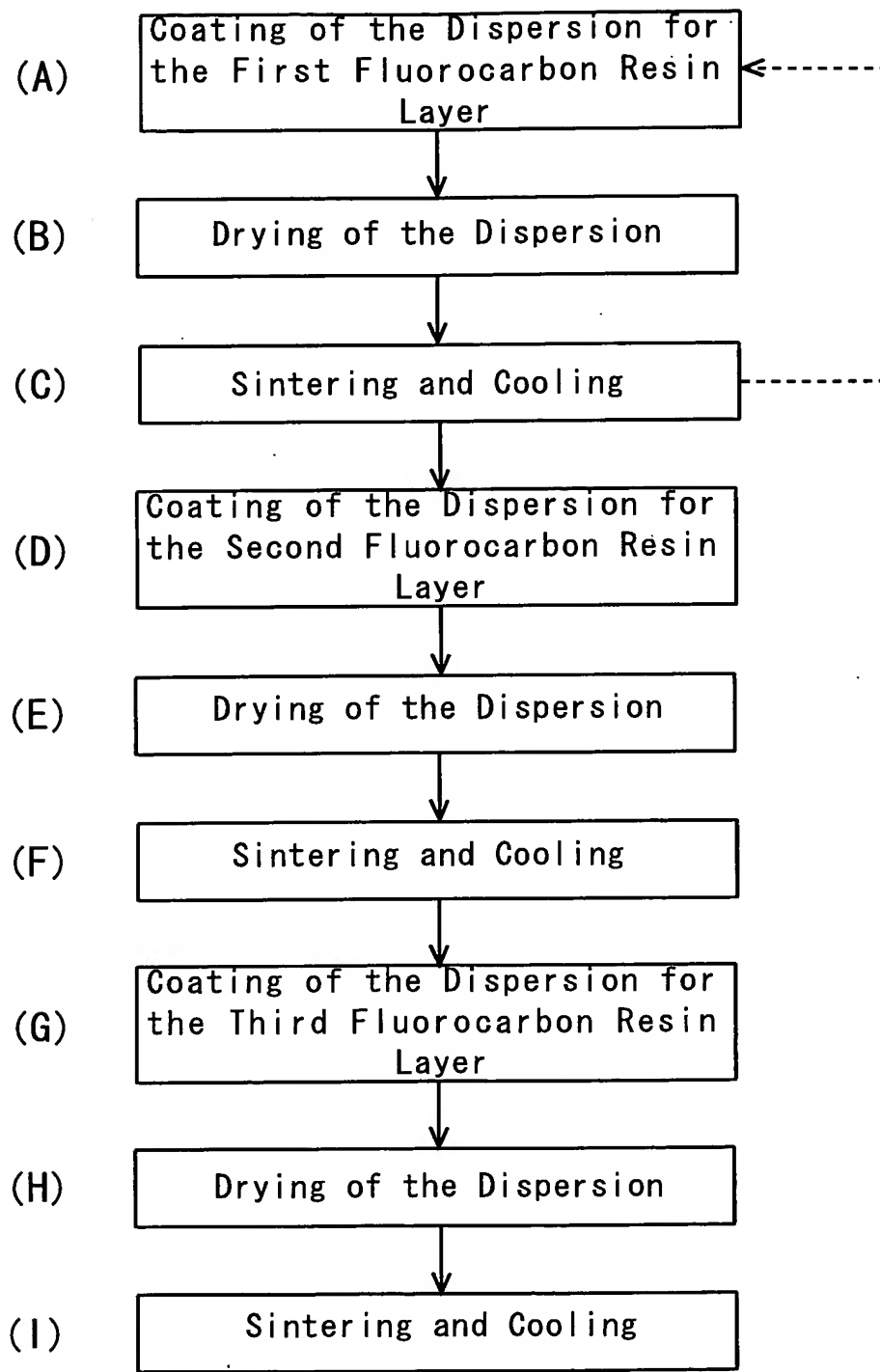


FIG. 6

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 21 | 62. 8 | 94. 4 | 1. 8 | 180 | 40:60 |

FIG. 7

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 42. 3 | 54. 4 | 81. 5 | 1. 8 | 180 | 60:40 |

FIG. 8

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 58. 9 | 48. 6 | 70. 7 | 1. 8 | 180 | 70:30 |

FIG. 9

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 80.9 | 39 | 58.3 | 1.8 | 180 | 80:20 |

FIG. 10

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 117. 6 | 25. 2 | 35. 4 | 1. 8 | 180 | 90:10 |

FIG. 11

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 14. 6 | 65. 7 | 97. 9 | 1. 8 | 180 | 30:70 |

FIG. 12

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 8. 8 | 67. 5 | 101. 9 | 1. 8 | 180 | 20:80 |

FIG. 13

| FEP Dispersion (kg) | TiO ₂ Dispersion (kg) | Water (kg) | Surface Active Agent (kg) | Total Mass (kg) | FEP:TiO ₂ (Mass Ratio) |
|---------------------------|--|---------------|---------------------------------|--------------------|--------------------------------------|
| 4. 1 | 70. 2 | 103. 9 | 1. 8 | 180 | 10:90 |

FIG. 14

| Sample | FEP:TiO ₂ (Mass Ratio) | Evaluation of Thermal Bondability | Evaluation of Antifouling |
|--------------------------|--------------------------------------|---|---------------------------------|
| Example 1 | 40:60 | ○ | ○ |
| Example 2 | 60:40 | ○ | ○ |
| Example 3 | 70:30 | ○ | ○ |
| Example 4 | 80:20 | ○ | ○ |
| Example 5 | 90:10 | ○ | △ |
| Example 6 | 60:40 | ○ | ○ |
| Comparative Example 1 | 30:70 | × | △ |
| Comparative Example 2 | 20:80 | × | △ |
| Comparative Example 3 | 10:90 | × | △ |
| Comparative Example 4 | 100:0 | ○ | × |

FIG. 15

| Sample | FEP:TiO ₂ (Mass Ratio) | Decomposition of Oleic Glyceride | | | Color Difference ΔE* | Measurement of Contact Angle with Water (degrees) | | Evaluation of Thermal Weldability | Evaluation of Antifouling | Overall Evaluation |
|-----------|--------------------------------------|----------------------------------|--------------------|---|----------------------------|--|-------------------------|---|---------------------------------|-----------------------|
| | | Coated (mg) | Decomposed (mg) | Rate of Decomposition (mg/cm ² ·day) | | Right after Manufacture | After UV Irradiation | | | |
| Example 1 | 40:60 | 106 | 14 | 0.56 | 27.27 | 119.2 | 107.0 | ○ | ○ | ○ |
| Example 2 | 60:40 | 111 | 10 | 0.40 | 28.02 | 110.2 | 104.7 | ○ | ○ | ○ |
| Example 3 | 70:30 | 119 | 10 | 0.40 | 16.66 | 112.0 | 106.3 | ○ | ○ | ○ |
| Example 4 | 80:20 | 113 | 11 | 0.52 | 13.10 | 114.3 | 111.9 | ○ | ○ | ○ |
| Example 5 | 90:10 | 117 | 10 | 0.40 | 4.94 | 110.4 | 109.2 | ○ | △ | ○ |
| Example 6 | 60:40 | 111 | 10 | 0.40 | 28.02 | 110.2 | 104.7 | ○ | ○ | ○ |

FIG. 16

| Sample | FEP:TiO ₂ (Mass Ratio) | Decomposition of Oleic Glyceride | | | Color Difference ΔE* | Measurement of Contact Angle with Water (degrees) | | Evaluation of Thermal Weldability | Evaluation of Antifouling | Overall Evaluation |
|--------------------------|--------------------------------------|----------------------------------|--------------------|---|----------------------------|--|-------------------------|---|---------------------------------|-----------------------|
| | | Coated (mg) | Decomposed (mg) | Rate of Decomposition (mg/cm ² ·day) | | Right after Manufacture | After UV Irradiation | | | |
| Comparative Example 1 | 30:70 | 106 | 15 | 0.60 | 26.83 | 123.7 | 106.0 | x | Δ | x |
| Comparative Example 2 | 20:80 | 117 | 12 | 0.48 | 26.00 | 120.8 | 105.4 | x | Δ | x |
| Comparative Example 3 | 10:90 | 114 | 11 | 0.44 | 28.21 | 108.9 | 80.5 | x | Δ | x |
| Comparative Example 4 | 100:0 | --- | --- | --- | --- | --- | --- | ○ | x | x |